

## **ABSTRACT**

The invention relates to an implantable stimulation electrode for use with an implantable tissue stimulator, especially a pacemaker, a defibrillator, a bone stimulator or a neurostimulator. The stimulation electrode comprises a metal base body, optionally one or several intermediate layers disposed on the base body and a coating covering the base body and, optionally, intermediate layers in order to increase tissue compatibility. Said coating should prevent tissue irritations after implantation and more particularly increase the stimulus threshold associated therewith, have very high biocompatibility and also has an anti-inflammatory effect. Said aim to increase tissue compatibility is achieved by virtue of the fact that the coating has a polysaccharide layer made of hyaluronic acid and/or hyaluronic acid derivatives.